

1

54

[illegible]

SEQ ID NO: 3

Length: 60

Type: DNA

5 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

10

Sequence: 3

ttattactcg cggcccagcc ggccatggcc gcaatgcacg tggcccagcc tgctgtggta 60

SEQ ID NO: 4

15 Length: 45

Type: DNA

Organism: Artificial Sequence

Feature:

20 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 4

tctcacagtg cacaggcaat gcacgtggcc cagcctgctg tggta

45

25

SEQ ID NO: 5

Length: 39

Type: DNA

Organism: Artificial Sequence

30

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

35 Sequence: 5

tctcacagtg cacaggcaat gcacgtggcc cagcctgct

39

SEQ ID NO: 6

Length: 43

Type: DNA

5 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

10

Sequence: 6

gcccagccgg ccgaattcgc aatgcacgtg gcccagcctg ctg

43

SEQ ID NO: 7

15 Length: 60

Type: DNA

Organism: Artificial Sequence

Feature:

20 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 7

gcagctaata cgactcacta taggaacaga ccaccatgga cgtggcccag cctgctgtgg 60

25

SEQ ID NO: 8

Length: 42

Type: DNA

Organism: Artificial Sequence

30

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

35 Sequence: 8

atctgcggcc gctacataaa tctgggtacc gttgccgatg cc

42

SEQ ID NO: 9

Length: 66

Type: DNA

5 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

10

Sequence: 9

gctgaattct gatcagtgat ggtgatggtg atgtgcggcc gcgtcagaat ctgggcacgg 60
ttctgg 66

15 SEQ ID NO: 10

Length: 51

Type: DNA

Organism: Artificial Sequence

20 Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 10

25 gcccttgggc cgggagatgg tctgcttcag tggcgagggc aggtctgtgt g 51

SEQ ID NO: 11

Length: 49

Type: DNA

30 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

35

Sequence: 11

cgagggcagg tctgtgtggg tcacggtgca cgtgaacctc tccccggag 49

SEQ ID NO: 12

5 Length: 51

Type: DNA

Organism: Artificial Sequence

Feature:

10 Other information: Description of Artificial Sequence:
Oligonucleotide PCR primer

Sequence: 12

cgtgaacctc tccccggagt tccagtcac ctcgcagatg ctggcctcac c 51

15

SEQ ID NO: 13

Length: 84

Type: DNA

Organism: Artificial Sequence

20

Feature:

Other information: Description of Artificial Sequence:
Oligonucleotide PCR primer

25 Sequence: 13

agctttgtgt gtgagtatgc agctggctgc aagaatttct tctggaagac tttcacatcc 60
tgtgccactg aggtccgggt gaca 84

SEQ ID NO: 14

30 Length: 84

Type: DNA

Organism: Artificial Sequence

Feature:

35 Other information: Description of Artificial Sequence:
Oligonucleotide PCR primer

Sequence: 14

ctgggtaccg ttgccgatgc cacaggatgt gaaagtcttc cagaagaaat tcttgcagcc 60
agcctccacc ttgcagatgt agag 84

5

SEQ ID NO: 15

Length: 75

Type: DNA

Organism: Artificial Sequence

10

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

15 Sequence: 15

agctttgtgt gtgagtatgc agctggctgc aagaatnnkn nknnknnknn knnkacatcc 60
tgtgccactg aggtc 75

SEQ ID NO: 16

20 Length: 75

Type: DNA

Organism: Artificial Sequence

Feature:

25 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 16

ctgggtaccg ttgccgatgc cacaggatgt mnnmnnmnnm nnnnnnnnat tcttgcagcc 60
30 agcctccacc ttgca 75

SEQ ID NO: 17

Length: 21

Type: DNA

35 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

5 Sequence: 17

gtaggttgcc gcacagactt c

21

SEQ ID NO: 18

Length: 66

10 Type: DNA

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

15 Oligonucleotide PCR primer

Sequence: 18

gaagtctgtg cggcaaccta cccgtatgac gttccggact acgccctaga tgattccatc 60

tgcacg

66

20

SEQ ID NO: 19

Length: 78

Type: DNA

Organism: Artificial Sequence

25

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

30 Sequence: 19

gccagctttg tgtgtgagta tgccagtggc tacaccatcg ggccgtactg catgggctc 60

cgggtgacag tgcttcgg

78

SEQ ID NO: 20

Length: 60

Type: DNA

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

10 Sequence: 20

tgtgcggcag ccatcaacat gggcgggtggc atcaccttcc tagatgattc catctgcacg 60

SEQ ID NO: 21

15 Length: 60

Type: DNA

Organism: Artificial Sequence

Feature:

20 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 21

atctaggaag gtgatgccac cgcccatggt gatggctgcc gcacagactt cagtcacctg 60

25

SEQ ID NO: 22

Length: 69

Type: DNA

Organism: Artificial Sequence

30

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 22

cagccccgtgg ccgcactcgt agtaggacgc gtagatcgtc gagtccacct tgcagatgta 60
gagtccccgt 69

5 SEQ ID NO: 23

Length: 72

Type: DNA

Organism: Artificial Sequence

10 Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 23

15 aatctgggta ccgttgccga tgccggagtc atagccgtac cctccccgtgg acagccccgtg 60
gccgcactcg ta 72

SEQ ID NO: 24

Length: 78

20 Type: DNA

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

25 Oligonucleotide PCR primer

Sequence: 24

gccagctttg tgtgtgagta tgccagtgga ttcaccttca gttcctacgc catgtccgtc 60
cgggtgacag tgcttcgg 78

30

SEQ ID NO: 25

Length: 51

Type: DNA

Organism: Artificial Sequence

35

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

5 Sequence: 25

gccatctccg gatccggagg ctcgacctac ctagatgatt ccatctgcac g 51

SEQ ID NO: 26

Length: 54

10 Type: DNA

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

15 Oligonucleotide PCR primer

Sequence: 26

gtaggtcgag cctccggatc cggagatggc tgccgcacag acttcagtca cctg 54

20 SEQ ID NO: 27

Length: 69

Type: DNA

Organism: Artificial Sequence

25 Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 27

30 cacgtccatg tagtagtctc cctcctcgcc ggcagtgccc cagcccacct tgcagatgta 60
gagtcccg 69

SEQ ID NO: 28

Length: 51

35 Type: DNA

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

5

Sequence: 28

aatctgggta ccgttgccga tgcccacgtc catgtagtag tctccctcct c 51

SEQ ID NO: 29

10 Length: 66

Type: DNA

Organism: Artificial Sequence

Feature:

15 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 29

agctttgtgt gtgagtatgc annknnknnk nnknnknnkn nknnkgccac tgagggtccgg 60
20 gtgaca 66

SEQ ID NO: 30

Length: 68

Type: DNA

25 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

30

Sequence: 30

cacgtggccc agcctgctgt ggtactggcc agcagccgag gcatcgccag ctttgtgtgt 60
gagtatgc 68

SEQ ID NO: 31

Length: 66

Type: DNA

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

10 Sequence: 31

gtgtgtgagt acgcgtncnn snnnsnnsnns nnsnnstgcn nsgctactga gggttcgtgtg 60
accgtc 66

SEQ ID NO: 32

15 Length: 73

Type: DNA

Organism: Artificial Sequence

Feature:

20 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 32

gccagctttg tgtgtgagta tgcannknnk nnknnknnkn nknnkggcgt ccgggtgaca 60
25 gtgcttcggc agg 73

SEQ ID NO: 33

Length: 82

Type: DNA

30 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR Primer

35

Sequence: 33

gccagctttg tgtgtgagta tgcannknnk nnknnknnkn nknnknnktg cnnkggcgtc 60
cgggtgacag tgcttcggca gg 82

5 SEQ ID NO: 34

Length: 82

Type: DNA

Organism: Artificial Sequence

10 Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR Primer

Sequence: 34

15 gccagctttg tgtgtgagta tgcannknnk ywynnkywyn nknnkywyty cnnkggcgtc 60
cgggtgacag tgcttcggca gg 82

SEQ ID NO: 35

Length: 70

20 Type: DNA

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

25 Oligonucleotide PCR primer

Sequence: 35

gccagctttg tgtgtgagta tgcattctcca gccnnknnkn nknnkgtccg ggtgacagt 60
cttcggcagg 70

30

SEQ ID NO: 36

Length: 70

Type: DNA

Organism: Artificial Sequence

35

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

5 Sequence: 36

gccagctttg tgtgtgagta tgcattctcca gccnnktgcn nknnkgtcg ggtgacagtg 60
cttcggcagg 70

SEQ ID NO: 37

10 Length: 68

Type: DNA

Organism: Artificial Sequence

Feature:

15 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 37

gtgactgaag tctgtgcggc aacctacnnk nnkgggnnkg agttgacctt cctagatgat 60
20 tccattctg 68

SEQ ID NO: 38

Length: 30

Type: DNA

25 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

30

Sequence: 38

gtaggttgcc gcacagactt cagtcacctg 30

SEQ ID NO: 39

Length: 68

Type: DNA

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

10 Sequence: 39

gtgactgaag tctgtgcggc atgctacnnk nnkgggnnkg agttgacctt cctagatgat 60
tccatctg 68

SEQ ID NO: 40

15 Length: 30

Type: DNA

Organism: Artificial Sequence

Feature:

20 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 40

gtagcatgcc gcacagactt cagtcacctg 30

25

SEQ ID NO: 41

Length: 69

Type: DNA

30 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

35

Sequence: 41

ctgggtaccg ttgccgatgc cmnnmnnmnn mnnmnnmnnm nnnnnnnnnct ccaccttgca 60
gatgtagag 69

5 SEQ ID NO: 42

Length: 67

Type: DNA

Organism: Artificial Sequence

10 Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 42

15 aggtggaann snnsnnsnns nnsnnstgcn nsnnsnnsnn snnsnnsnns ggcacggca 60
acggtac 67

SEQ ID NO: 43

Length: 78

20 Type: DNA

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

25 Oligonucleotide PCR primer

Sequence: 43

aatctgggta ccgttgccga tgccmnnmnn mnnmnnmnnm nnnnnnnnnm nnnncacctt 60
gcagatgtag agtcccgt 78

30

SEQ ID NO: 44

Length: 93

Type: DNA

Organism: Artificial Sequence

35

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

5 Sequence: 44

aatctgggta ccgttgccga tgcccagmnn mnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 60
mnnmnnctcc accttgccaga tntagagtcc cgt 93

SEQ ID NO: 45

10 Length: 81

Type: DNA

Organism: Artificial Sequence

Feature:

15 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 45

aatctgggta ccgttgccga tgccmnnmnn mnnmnnngcam nnnnnnnnnnnn nnnnnnnncac 60
20 cttgcagatg tagagtcccg t 81

SEQ ID NO: 46

Length: 87

Type: DNA

25 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

30

Sequence: 46

aatctgggta ccgttgccga tgccmnnmnn mnnmnnmnnng camnnnnnnnn nnnnnnnnnnnn 60
mnnacacttg cagatgtaga gtcccggt 87

SEQ ID NO: 47

Length: 99

Type: DNA

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

10 Sequence: 47

aatctgggta ccgttgccga tgccmnnmnn mnnmnnmnnm nngcamnnnn nnnnnnnnnn 60
mnnmnnmnnm nnnnnncacct tgcagatgta ggtcccggt 99

SEQ ID NO: 48

15 Length: 87

Type: DNA

Organism: Artificial Sequence

Feature:

20 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 48

aatctgggta ccgttgccga tgccrwrnnn mnnmnnmnnng camnnmnnnn nnnnnnnnnn 60
25 mnnncaccttg cagatgtaga gtcccggt 87

SEQ ID NO: 49

Length: 70

Type: DNA

30 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

35

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

5 Sequence: 52

caggtgaccg aagtttgccg ggcagcgatc aacatgggcg gtggcatcac ctccctggat 60
gattccatct gcacc 75

SEQ ID NO: 53

10 Length: 66

Type: DNA

Organism: Artificial Sequence

Feature:

15 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 53

cagaccctgg atggtcaggt tcacctggtt accgctggag gtgccggtgc agatggaatc 60
20 atccag 66

SEQ ID NO: 54

Length: 57

Type: DNA

25 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

30

Sequence: 54

cactttgcag atgtacagac cggtatccat ggcacgcaga ccctggatgg tcaggtt 57

SEQ ID NO: 55

Length: 66

Type: DNA

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

10 Sequence: 55

caggccatga ccgcattcgt aataagacgc atagatgggtg ctatccactt tgcagatgta 60
cagacc 66

SEQ ID NO: 56

15 Length: 69

Type: DNA

Organism: Artificial Sequence

Feature:

20 Other information: Description of Artificial Sequence:

Oligonucleotide PCR primer

Sequence: 56

ctgggtaccg ttgccgatgc cagaatcgta gccatagcca ccggtggaca ggccatgacc 60
25 gcattcgta 69

SEQ ID NO: 57

Length: 672

Type: DNA

30 Organism: Homo sapiens

Sequence: 57

atggcttgcc ttggatttca gcggcacaag gctcagctga acctggctgc caggacctgg 60
ccctgcactc tctgtttttt tcttctcttc atccctgtct tctgcaaagc aatgcacgtg 120
35 gccagcctg ctgtggtact ggccagcagc cgaggcatcg ccagctttgt gtgtgagtat 180

gcacatctccag gcaaagccac tgagggtccgg gtgacagtgc ttcgggcaggc tgacagccag 240
 gtgactgaag tctgtgcggc aacctacatg acgggggaatg agttgacctt cctagatgat 300
 tccatctgca cgggcacctc cagtggaaat caagtgaacc tcactatcca aggactgagg 360
 gccatggaca cgggactcta catctgcaag gtggagctca tgtaccacc gccatactac 420
 5 ctgggcatag gcaacggaac ccagatttat gtaattgatc cagaaccgtg cccagattct 480
 gacttcctcc tctggatcct tgcagcagtt agttcgggggt tgttttttta tagctttctc 540
 ctcacagctg tttctttgag caaaatgcta aagaaaagaa gccctcttac aacaggggtc 600
 tatgtgaaaa tgccccaac agagccagaa tgtgaaaagc aatttcagcc ttattttatt 660
 cccatcuatt ga 672

10

SEQ ID NO: 58

Length: 115

Type: PRT

Organism: Homo sapiens

15

Sequence: 58

Ala Met His Val Ala Gln Pro Ala Val Val Leu Ala Ser Ser Arg Gly
 1 5 10 15

20 Ile Ala Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu
 20 25 30

Val Arg Val Thr Val Leu Arg Gln Ala Asp Ser Gln Val Thr Glu Val
 35 40 45

25

Cys Ala Ala Thr Tyr Met Met Gly Asn Glu Leu Thr Phe Leu Asp Asp
 50 55 60

30 Ser Ile Cys Thr Gly Thr Ser Ser Gly Asn Gln Val Asn Leu Thr Ile
 65 70 75 80

Gln Gly Leu Arg Ala Met Asp Thr Gly Leu Tyr Ile Cys Lys Val Glu
 85 90 95

35 Leu Met Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile Gly Asn Gly Ala Gln
 100 105 110

Ile Tyr Val

115

5

SEQ ID NO: 59

Length: 7

Type: PRT

Organism: Homo sapiens

10

Sequence: 59

Ser Pro Gly Lys Ala Thr Glu

1

5

15

SEQ ID NO: 60

Length: 9

Type: PRT

Organism: Homo sapiens

20

Sequence: 60

Tyr Met Met Gly Asn Glu Leu Thr Phe

1

5

25

SEQ ID NO: 61

Length: 9

Type: PRT

30

Organism: Homo sapiens

Sequence: 61

Leu Met Tyr Pro Pro Pro Tyr Tyr Leu

1

5

35

SEQ ID NO: 62
Length: 14
Type: PRT
Organism: Homo sapiens

5

Sequence: 62
Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
1 5 10

10

SEQ ID NO: 63
Length: 9
Type: PRT
Organism: Artificial Sequence

15

Feature:
Other information: Description of Artificial Sequence: Haemagglutinin
tag

20

Sequence: 63
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

25

SEQ ID NO: 64
Length: 11
Type: PRT
Organism: Artificial Sequence

30

Feature:
Other information: Description of Artificial Sequence: Sequence from
anti-lysozyme antibody

35

Sequence: 64
Ser Gly Tyr Thr Ile Gly Pro Tyr Cys Met Gly
1 5 10

SEQ ID NO: 65

Length: 10

Type: PRT

5 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Sequence from
anti-lysozyme antibody

10

Sequence: 65

Thr Tyr Met Met Gly Asn Glu Leu Thr Phe

1

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SEQ ID NO: 66

Length: 24

Type: PRT

Organism: Artificial Sequence

20

Feature:

Other information: Description of Artificial Sequence: Sequence from
anti-lysozyme antibody

25

Sequence: 66

Asp Ser Thr Ile Tyr Ala Ser Tyr Tyr Glu Cys Gly His Gly Leu Ser

1

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Thr Gly Gly Tyr Gly Tyr Asp Ser

30

20

SEQ ID NO: 67

Length: 11

35

Type: PRT

Organism: Homo sapiens

Sequence: 67

Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser

1 5 10

5

SEQ ID NO: 68

Length: 10

Type: PRT

10 Organism: Homo sapiens

Sequence: 68

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr

1 5 10

15

SEQ ID NO: 69

Length: 15

Type: PRT

20 Organism: Homo sapiens

Sequence: 69

Gly Trp Gly Leu Arg Gly Glu Glu Gly Asp Tyr Tyr Met Asp Val

1 5 10 15

25

SEQ ID NO: 70

Length: 21

Type: PRT

30 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Flag-tag

Sequence: 70

Ala Ala Ala Asp Tyr Lys Asp Asp Asp Asp Lys Ala Ala Asp Tyr Lys
1 5 10 15

5 Asp Asp Asp Asp Lys
20

SEQ ID NO: 71

10 Length: 14

Type: PRT

Organism: Homo sapiens

Sequence: 71

15 Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Lys Ala Thr Glu
1 5 10

SEQ ID NO: 72

20 Length: 18

Type: PRT

Organism: Artificial Sequence

Feature:

25 Other information: Description of Artificial Sequence: Fusion protein

Sequence: 72

Ser Phe Val Cys Glu Tyr Ala Ser Gly Tyr Thr Ile Gly Pro Tyr Cys
1 5 10 15

30

Met Gly

SEQ ID NO: 73

Length: 24

Type: PRT

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence: Fusion protein

Sequence: 73

10 Ser Phe Val Cys Glu Tyr Ala Ala Gly Cys Lys Asn Phe Phe Trp Lys
1 5 10 15

Thr Phe Thr Ser Cys Ala Thr Glu
20

15

SEQ ID NO: 74

Length: 18

Type: PRT

20 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein

25 Sequence: 74

Ser Phe Val Cys Glu Tyr Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala
1 5 10 15

Met Ser

30

SEQ ID NO: 75

Length: 15

35 Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

5

Sequence: 75

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly

1

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10

15

10

SEQ ID NO: 76

Length: 18

Type: PRT

Organism: Artificial Sequence

15

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

20

Sequence: 76

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys

1

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10

15

Xaa Gly

25

SEQ ID NO: 77

Length: 21

30

Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

35

30

Sequence: 77

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Ala Arg Xaa Ala Arg Xaa Xaa

1

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10

15

5 Ala Arg Cys Xaa Gly

20

SEQ ID NO: 78

10 Length: 14

Type: PRT

Organism: Artificial Sequence

Feature:

15 Other information: Description of Artificial Sequence:Fusion protein
containing random sequence

Sequence: 78

Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Xaa Xaa Xaa Xaa

20

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10

SEQ ID NO: 79

Length: 14

25 Type: PRT

Organism: Artificial Sequence

Feature:

30 Other information: Description of Artificial Sequence:Fusion protein
containing random sequence

Sequence: 79

Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly Xaa Cys Xaa Xaa

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35

SEQ ID NO: 80

Length: 18

Type: PRT

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

10 Sequence: 80

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala
1 5 10 15

Thr Glu

15

SEQ ID NO: 81

20 Length: 18

Type: PRT

Organism: Artificial Sequence

Feature:

25 Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

Sequence: 81

Ser Phe Val Cys Glu Tyr Ala Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Ala
30 1 5 10 15

Thr Glu

35

SEQ ID NO: 82

Length: 24

Type: PRT

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

10 Sequence: 82

Ser Phe Val Cys Glu Tyr Ala Ala Gly Cys Lys Asn Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Thr Ser Cys Ala Thr Glu

15 20

SEQ ID NO: 83

Length: 25

20 Type: PRT

Organism: Homo sapiens

Sequence: 83

Gln Val Thr Glu Val Cys Ala Ala Thr Tyr Met Met Gly Asn Glu Leu
25 1 5 10 15

Thr Phe Leu Asp Asp Ser Ile Cys Thr
20 25

30

SEQ ID NO: 84

Length: 25

Type: PRT

Organism: Artificial Sequence

35

Feature:

Other information: Description of Artificial Sequence: Fusion protein

Sequence: 84

5 Gln Val Thr Glu Val Cys Ala Ala Ala Ile Asn Met Gly Gly Gly Ile
1 5 10 15

Thr Phe Leu Asp Asp Ser Ile Cys Thr
20 25

10

SEQ ID NO: 85

Length: 25

Type: PRT

15 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein

20 Sequence: 85

Gln Val Thr Glu Val Cys Ala Ala Thr Tyr Pro Tyr Asp Val Pro Asp
1 5 10 15

Tyr Ala Leu Asp Asp Ser Ile Cys Thr
25 20 25

25

SEQ ID NO: 86

Length: 25

30 Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein

35

34

Sequence: 86

Gln Val Thr Glu Val Cys Ala Ala Ala Ile Ser Gly Ser Gly Gly Ser
1 5 10 15

5 Thr Tyr Leu Asp Asp Ser Ile Cys Thr
20 25

SEQ ID NO: 87

10 Length: 25

Type: PRT

Organism: Artificial Sequence

Feature:

15 Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

Sequence: 87

Gln Val Thr Glu Val Cys Ala Ala Thr Tyr Xaa Xaa Gly Xaa Glu Leu
20 1 5 10 15

Thr Phe Leu Asp Asp Ser Ile Cys Thr
20 25

25

SEQ ID NO: 88

Length: 25

Type: PRT

Organism: Artificial Sequence

30

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

35

Sequence: 88

Gln Val Thr Glu Val Cys Ala Ala Cys Tyr Xaa Xaa Gly Xaa Glu Leu
1 5 10 15

5 Thr Phe Leu Asp Asp Ser Ile Cys Thr
20 25

SEQ ID NO: 89

10 Length: 13

Type: PRT

Organism: Homo sapiens

Sequence: 89

15 Cys Lys Val Glu Leu Met Tyr Pro Pro Pro Tyr Tyr Leu
1 5 10

SEQ ID NO: 90

20 Length: 27

Type: PRT

Organism: Artificial Sequence

Feature:

25 Other information: Description of Artificial Sequence: Fusion protein

Sequence: 90

Cys Lys Val Asp Ser Thr Ile Tyr Ala Ser Tyr Tyr Glu Cys Gly His
1 5 10 15

30

Gly Leu Ser Thr Gly Gly Tyr Gly Tyr Asp Ser
20 25

SEQ ID NO: 91

Length: 18

Type: PRT

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence: Fusion protein

Sequence: 91

10 Cys Lys Val Glu Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr
1 5 10 15

Ser Cys

15

SEQ ID NO: 92

Length: 18

Type: PRT

20 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein

25 Sequence: 92

Cys Lys Val Gly Trp Gly Leu Arg Gly Glu Glu Gly Asp Tyr Tyr Met
1 5 10 15

Asp Val

30

SEQ ID NO: 93

Length: 14

35 Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

5 Sequence: 93

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

10

10 SEQ ID NO: 94

Length: 18

Type: PRT

Organism: Artificial Sequence

15 Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

Sequence: 94

20 Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

10

15

Xaa Xaa

25

SEQ ID NO: 95

Length: 14

Type: PRT

30 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

35

Sequence: 95

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa

1

5

10

5

SEQ ID NO: 96

Length: 15

Type: PRT

Organism: Artificial Sequence

10

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

15

Sequence: 96

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa

1

5

10

15

20

SEQ ID NO: 97

Length: 17

Type: PRT

Organism: Artificial Sequence

25

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

Sequence: 97

30

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa

1

5

10

15

Xaa

35

SEQ ID NO: 98

Length: 21

Type: PRT

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

10 Sequence: 98

Cys Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa

15 20

SEQ ID NO: 99

Length: 13

20 Type: PRT

Organism: Artificial Sequence

Feature:

25 Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

Sequence: 99

Cys Lys Val Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

30

SEQ ID NO: 100

Length: 18

Type: PRT

35 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

5 Sequence: 100

Cys Lys Val Glu Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa

10

SEQ ID NO: 101

15 Length: 18

Type: PRT

Organism: Artificial Sequence

Feature:

20 Other information: Description of Artificial Sequence: Fusion protein
containing random sequence

Sequence: 101

Cys Lys Val Glu Ala Gly Cys Lys Asn Xaa Xaa Xaa Xaa Xaa Xaa Thr
25 1 5 10 15

Ser Cys

30

SEQ ID NO: 102

Length: 10

Type: PRT

Organism: Artificial Sequence

35

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

5 Sequence: 102

Leu Pro Ser Ser Asp Thr Arg Ala Tyr Ser
1 5 10

10 SEQ ID NO: 103

Length: 8

Type: PRT

Organism: Artificial Sequence

15 Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 103

20 Gln Glu Ser Gly Gly Arg Pro Gly
1 5

SEQ ID NO: 104

25 Length: 10

Type: PRT

Organism: Artificial Sequence

Feature:

30 Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 104

35 Leu Pro Arg Gly Pro Pro Leu Leu Ser Leu
1 5 10

SEQ ID NO: 105

Length: 7

Type: PRT

5 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

10

Sequence: 105

Ser Pro Gly Arg Cys Leu Asn

1

5

15

SEQ ID NO: 106

Length: 8

Type: PRT

Organism: Artificial Sequence

20

Feature:

Name/Key: MOD_RES

Location: (5)

Other information: Stop codon but Glu when expressed in Tg-1 or JM109
25 strains of E.coli

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

30

Sequence: 106

Glu Trp Lys Arg Glu His Gly Gly

1

5

35

Length: 10

Organism: Artificial Sequence

5

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Leu Cys Pro Gly Ala Cys Gly Cys Val Tyr

10

Length: 8

Organism: Artificial Sequence

Name/Key: MOD RES

Other information: Stop codon but Glu when expressed in Tg-1 of JM109
E.coli strains

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3 inserts possessing randomly generated sequence

Asn Ser Gly Glu Asn Glu Gly Gly

5

SEQ ID NO: 109

Length: 8

Type: PRT

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3 inserts possessing randomly generated sequence

10 Sequence: 109

Asp Lys Pro Val Thr Lys Ser Gly

1

5

15 SEQ ID NO: 110

Length: 7

Type: PRT

Organism: Artificial Sequence

20 Feature:

Name/Key: MOD RES

Location: (7)

Other information: Stop codon but Glu when expressed in Tg-1 or JM109 strains of E. coli

25

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3 inserts possessing randomly generated sequence

30 Sequence: 110

Ser Pro Gly Ala Cys Pro Glu

1

5

SEQ ID NO: 111

Length: 7

Type: PRT

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

10 Sequence: 111

Ser Pro Gly Lys Cys Asp Gln

1

5

15 SEQ ID NO: 112

Length: 7

Type: PRT

Organism: Artificial Sequence

20 Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 112

25 Ser Pro Gly Met Cys Ala Arg

1

5

SEQ ID NO: 113

30 Length: 11

Type: PRT

Organism: Artificial Sequence

Feature:

Name/Key: MOD_RES

Location: (8)

Other information: Stop codon but Glu when expressed in Tg-1 or JM109

5 strains of E. coli

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

10

Sequence: 113

Pro Phe Leu Phe Leu Pro Cys Glu Phe Phe Phe

1

5

10

15

SEQ ID NO: 114

Length: 11

Type: PRT

Organism: Artificial Sequence

20

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

25

Sequence: 114

Trp Thr Leu Gly His His Lys Leu Cys Glu Gly

1

5

10

30

SEQ ID NO: 115

Length: 10

Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

5 Sequence: 115

Leu Phe Thr Cys Leu Leu Ala Leu Cys Ser
1 5 10

10 SEQ ID NO: 116

Length: 7

Type: PRT

Organism: Artificial Sequence

15 Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 116

20 Ser Pro Gly Glu Cys Tyr Gly
1 5

SEQ ID NO: 117

25 Length: 13

Type: PRT

Organism: Artificial Sequence

Feature:

30 Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 117

Ser Trp Leu Ser Thr Thr Xaa Cys Leu Ser Ser Cys Ser
35 1 5 10

SEQ ID NO: 118

Length: 7

Type: PRT

5 Organism: Artificial Sequence

Feature:

Name/Key: MOD_RES

Location: (4)

10 Other information: Stop codon but Glu when expressed in Tg-1 or JM109
strains of E. coli

Feature:

15 Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 118

Ser Pro Gly Glu Cys Gln Asp

1

5

20

SEQ ID NO: 119

Length: 13

Type: PRT

25 Organism: Artificial Sequence

Feature:

30 Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 119

Leu Leu Gly Ser Leu Leu Ser Cys Phe Ala Ser Leu Ser

1

5

10

35

SEQ ID NO: 120

Length: 13

Type: PRT

Organism: Artificial Sequence

5

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

10 Sequence: 120

Ser Pro Gly Ser Leu Leu Ser Cys Phe Ala Ser Xaa Ser

1

5

10

15

SEQ ID NO: 121

Length: 7

Type: PRT

Organism: Artificial Sequence

20

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

25 Sequence: 121

Ser Pro Gly Arg Cys Thr Asp

1

5

30 SEQ ID NO: 122

Length: 13

Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

5 Sequence: 122

Val Ile Cys His Ser Ser Val Cys Leu Ser Asp Val Cys
1 5 10

10 SEQ ID NO: 123

Length: 13

Type: PRT

Organism: Artificial Sequence

15 Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 123

20 Val Ile Cys His Ser Ser Val Cys Leu Ser Glu Val Cys
1 5 10

SEQ ID NO: 124

25 Length: 10

Type: PRT

Organism: Artificial Sequence

Feature:

30 Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 124

35 Asp Leu Pro Ser Tyr Leu Ala Cys Ser Ile
1 5 10

SEQ ID NO: 125

Length: 7

Type: PRT

5 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

10

Sequence: 125

Ser Pro Gly Arg Cys Asp Ala

1

5

15

SEQ ID NO: 126

Length: 14

Type: PRT

Organism: Artificial Sequence

20

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

25

Sequence: 126

Ala Leu Cys Trp Asp Val Phe Tyr Cys Ser Phe Pro Ser Tyr

1

5

10

30

SEQ ID NO: 127

Length: 11

Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

5 Sequence: 127

Glu Leu Phe Gly His Ala Arg Tyr Cys Lys Gly
1 5 10

10 SEQ ID NO: 128

Length: 15

Type: PRT

Organism: Artificial Sequence

15 Feature:

Name/Key: MOD_RES

Location: (7)

Other information: Stop codon but Glu when expressed in Tg-1 of JM019
strains of E. coli

20

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

25 Sequence: 128

Val Ser Ile Thr Ser Pro Glu Leu Cys Pro Val Lys Val Phe Asp
1 5 10 15

30 SEQ ID NO: 129

Length: 7

Type: PRT

Organism: Artificial Sequence

Feature:

Name/Key: MOD_RES

Location: (6)

Other information: Stop codon but Glu when expressed in Tg-1 or JM109

5 strains of E. coli

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

10

Sequence: 129

Ser Pro Gly Lys Val Glu Asn

1

5

15

SEQ ID NO: 130

Length: 8

Type: PRT

Organism: Artificial Sequence

20

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

25

Sequence: 130

Leu Phe Val Pro Phe Val Ser Pro

1

5

30

SEQ ID NO: 131

Length: 7

Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

5 Sequence: 131

Ser Pro Gly Asp Leu Trp Val

1 5

10 SEQ ID NO: 132

Length: 15

Type: PRT

Organism: Artificial Sequence

15 Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 132

20 Glu Ser Gly Leu Ser Pro Val Ser Pro Cys Ser Leu Tyr Ser Leu

1 5 10 15

SEQ ID NO: 133

25 Length: 8

Type: PRT

Organism: Artificial Sequence

Feature:

30 Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 133

Thr Ser Ala Asn Gly Pro Tyr Gly

35 1 5

SEQ ID NO: 134

Length: 10

Type: PRT

5 Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

10

Sequence: 134

Pro Trp Ala Tyr Arg Phe Leu Ala Val Leu

1

5

10

15

SEQ ID NO: 135

Length: 8

Type: PRT

Organism: Artificial Sequence

20

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

25

Sequence: 135

Arg Lys Thr Arg Glu Lys Tyr Gly

1

5

30

SEQ ID NO: 136

Length: 12

Type: PRT

Organism: Artificial Sequence

Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

5 Sequence: 136

Glu Leu Met Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile

1

5

10

10 SEQ ID NO: 137

Length: 7

Type: PRT

Organism: Artificial Sequence

15 Feature:

Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 137

20 Ser Pro Gly Gln Glu Leu Thr

1

5

SEQ ID NO: 138

25 Length: 15

Type: PRT

Organism: Artificial Sequence

Feature:

30 Other information: Description of Artificial Sequence: CDR1 and CDR3
inserts possessing randomly generated sequence

Sequence: 138

Glu Leu Phe Phe Leu Leu Tyr Ala Pro Cys Tyr Leu Phe Gln Arg

35

1

5

10

15